Claims

1. A sensing wheel (5) for a device (3) for measuring the rotational angle of a crankshaft (2) of an internal combustion engine (1), having a plurality of peripherally arranged teeth (7), which each have a front edge (9) and a rear edge (10), which define the width of the respective tooth (7), and having tooth gaps (8) situated between the teeth (7), the respective front edges (9) or rear edges (10) of the teeth (7) being spaced at basically the same angular interval from one another, and a limited number of different tooth widths being provided over the entire periphery, **characterized in that** the sequence of the tooth widths of at least three successive teeth (7) over the entire periphery is unambiguous.

2. The sensing wheel as claimed in claim 1, **characterized in that** the front edges (9) of each of the teeth (7) are spaced at basically the same angular interval from one another and that the different width of the teeth (7) is formed by a differing interval between the respective rear edges (10) of the teeth (7).

3. The sensing wheel as claimed in claim 1 or 2, **characterized in that** the four different tooth widths are provided over the entire periphery.

4. The sensing wheel as claimed in any one of claims 1 to 3, **characterized in that** the width of each tooth (7) together with the succeeding or preceding tooth gap (8) is approximately 6°.

5. A device for measuring the rotational angle of a crankshaft (2) of an internal combustion engine (1), having a pulse sensor (4) and a sensing wheel (5) as claimed in any one of claims 1 to 4.

6. The device as claimed in claim 5, **characterized in that** a control unit (6) is provided for evaluating the values registered by the pulse sensor (4).

7. The device as claimed in claim 6, **characterized in that** a software, in which specific combinations of successive widths of the teeth (7) correspond to a specific angular position of the crankshaft (2), is filed in the control unit (6).